

Jaegab Lee

List of Publications by Year in descending order

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docs citations

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times ranked

1949
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#	ARTICLE	IF	CITATIONS
1	Effects of the PbBr ₂ :PbI ₂ Molar Ratio on the Formation of Lead Halide Thin Films, and the Ratio's Application for High Performance and Wide Bandgap Solar Cells. <i>Materials</i> , 2022, 15, 837.	2.9	3
2	In situ electron-doping of MoS ₂ thin films by embedded MoO _x S _y particles during chemical vapor deposition. <i>Journal of Materials Science</i> , 2021, 56, 2879-2886.	3.7	3
3	Tailoring methyl-ammonium lead bromide nanostructure by solvent engineering and their application to high open circuit voltage solar cells. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 126, 114420.	2.7	7
4	Microstructures, structural, optical, and photovoltaic characteristics of mixed halide perovskite nanowires. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	2.3	1
5	Fibertronic Organic Light-Emitting Diodes toward Fully Addressable, Environmentally Robust, Wearable Displays. <i>ACS Nano</i> , 2020, 14, 1133-1140.	14.6	60
6	Effect of Ge doping on the electrical properties of amorphous Zn _{1-x} Sn _x O thin films. <i>Current Applied Physics</i> , 2020, 20, 1041-1048.	2.4	3
7	Fabrication and optimization of nanocube mixed halide perovskite films for solar cell application. <i>Solar Energy</i> , 2020, 201, 209-218.	6.1	6
8	Galvanically Replaced, Single-Bodied Lithium-Ion Battery Fabric Electrodes. <i>Advanced Functional Materials</i> , 2020, 30, 1908633.	14.9	11
9	Strategically Manipulated Polymer Solar Cells to Incorporate Plasmonically Enhanced Spectral Upconversion Backplane. <i>Advanced Optical Materials</i> , 2020, 8, 2000466.	7.3	5
10	Effect of Temperature on Coalescence Behavior of Unsupported Gold Nanoparticles. <i>Electronic Materials Letters</i> , 2019, 15, 133-139.	2.2	12
11	Plasmonically Engineered Textile Polymer Solar Cells for High-Performance, Wearable Photovoltaics. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 20864-20872.	8.0	37
12	Effects of interfacial layer-by-layer nanolayers on the stability of the Cu TSV: Diffusion barrier, adhesion, conformal coating, and mechanical property. <i>Materials Science in Semiconductor Processing</i> , 2018, 83, 33-41.	4.0	3
13	CH ₃ NH ₃ PbBr ₃ nanocubes-array for solar cell application. <i>Materials Science in Semiconductor Processing</i> , 2018, 74, 361-368.	4.0	8
14	Translated structural morphology of conductive polymer nanofilms synthesized by vapor phase polymerization. <i>Synthetic Metals</i> , 2018, 244, 113-119.	3.9	11
15	Effects of Chlorine Contents on Perovskite Solar Cell Structure Formed on CdS Electron Transport Layer Probed by Rutherford Backscattering. <i>Electronic Materials Letters</i> , 2018, 14, 700-711.	2.2	6
16	Self-assembled monolayer modified MoO ₃ /Au/MoO ₃ multilayer anodes for high performance OLEDs. <i>Electronic Materials Letters</i> , 2017, 13, 16-24.	2.2	12
17	Pulsed laser chemical vapor deposition of a mixture of W, WO ₂ , and WO ₃ from W(CO) ₆ at atmospheric pressure. <i>Thin Solid Films</i> , 2017, 626, 145-153.	1.8	13
18	Niobium oxide nanoparticle core-amorphous carbon shell structure for fast reversible lithium storage. <i>Electrochimica Acta</i> , 2017, 240, 316-322.	5.2	34

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19	Synthesis of highly conductive cobalt thin films by LCVD at atmospheric pressure. <i>Materials Science in Semiconductor Processing</i> , 2017, 68, 245-251.	4.0	2
20	Improvement of On/Off Ratio in Solution-Processed Graphene-Zinc Oxide Resistive Switching Memory by Blending with Polystyrene. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 12918-12922.	0.9	1
21	Design of a MoO ₃ /Au/MoO ₃ transparent electrode for high-performance OLEDs. <i>Organic Electronics</i> , 2016, 36, 61-67.	2.6	29
22	A simple process based on NH ₂ - and CH ₃ -terminated monolayers for low contact resistance and adherent Au electrode in bottom-contact OTFTs. <i>Electronic Materials Letters</i> , 2016, 12, 197-204.	2.2	2
23	Effects of Surface Oxide on the Nitridation Behavior of Aluminum Particles. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 496-504.	2.2	14
24	ITO-free organic solar cell with an PEDOT:PTS/Au/TiO ₂ grid hybrid electrode as a transparent anode. <i>Current Applied Physics</i> , 2015, 15, S2-S7.	2.4	5
25	Electrochemical lithium storage kinetics of self-organized nanochannel niobium oxide electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2015, 746, 45-50.	3.8	19
26	Hybrid dielectric layer for low operating voltages of transparent and flexible organic complementary inverter. <i>Electronic Materials Letters</i> , 2015, 11, 252-258.	2.2	10
27	Mechanical and electrical stability of PEDOT:PTS and Au source/drain electrodes for bottom contact OTFTs on plastic films under bending conditions. <i>Organic Electronics</i> , 2015, 26, 8-14.	2.6	7
28	Electrochemical behavior of manganese oxides on flexible substrates for thin film supercapacitors. <i>Electrochimica Acta</i> , 2015, 153, 184-189.	5.2	22
29	Indium Tin Oxide-Free PEDOT:PSS/SAM/MoO ₃ /Au/MoO ₃ /PEDOT:PSS Multilayer Electrodes for Organic Solar Cells. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 7779-7783.	0.9	7
30	MoO ₃ /Au/MoO ₃ -PEDOT:PSS multilayer electrodes for ITO-free organic solar cells. <i>Materials Science in Semiconductor Processing</i> , 2014, 27, 114-120.	4.0	15
31	Effects of solvent on the formation of the MUA monolayer on Si and its diffusion barrier properties for Cu metallization. <i>Electronic Materials Letters</i> , 2014, 10, 671-678.	2.2	4
32	Semitransparent, thin metal grid-based hybrid electrodes for polymer solar cells. <i>Materials Science in Semiconductor Processing</i> , 2014, 23, 104-109.	4.0	9
33	ITO free MoO ₃ /Au/MoO ₃ structures using Al ₂ O ₃ as protective barrier between MoO ₃ and PEDOT:PSS in organic solar cells. <i>Renewable Energy</i> , 2014, 71, 193-199.	8.9	12
34	Direct contact of indium tin oxide layer to Al(Ni) alloy electrodes for a-Si:H thin film transistors: Effects of Ni alloying on interfacial oxide growth and contact resistance. <i>Thin Solid Films</i> , 2013, 546, 9-13.	1.8	0
35	PEDOT gate electrodes with PVP/Al ₂ O ₃ dielectrics for stable high-performance organic TFTs. <i>Electronic Materials Letters</i> , 2013, 9, 741-746.	2.2	10
36	High performance of pentacene organic thin film transistors by doping of iodine on source/drain regions. <i>Organic Electronics</i> , 2013, 14, 1142-1148.	2.6	11

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37	Consecutive and Selective Chemical Vapor Deposition of Pt/Al Bilayer Electrodes for TiO ₂ Resistive Switching Memory. Japanese Journal of Applied Physics, 2013, 52, 10MC08.	1.5	2
38	Memory Effect of Low-Temperature Processed ZnO Thin-Film Transistors Having Metallic Nanoparticles as Charge Trapping Elements. Journal of Nanoscience and Nanotechnology, 2012, 12, 1344-1347.	0.9	0
39	A Novel Method for Patterning of Poly(3,4-ethylenedioxythiophene) Films Using UV Exposure-Activated Self-Assembled Monolayers. Journal of Nanoscience and Nanotechnology, 2012, 12, 1457-1460.	0.9	1
40	Monte Carlo simulations of the structure of Pt-based bimetallic nanoparticles. Acta Materialia, 2012, 60, 4908-4916.	7.9	71
41	High Performance Flexible Organic Thin Film Transistors (OTFTs) with Octadecyltrichlorosilane/Al ₂ O ₃ /Poly(4-vinylphenol) Multilayer Insulators. Journal of Nanoscience and Nanotechnology, 2012, 12, 1348-1352.	0.9	10
42	The effects of the surface morphology of poly(3,4-ethylenedioxythiophene) electrodes on the growth of pentacene, and the electrical performance of the bottom contact pentacene transistor. Solid-State Electronics, 2012, 67, 70-73.	1.4	23
43	Self-assembled nanolayers as interfacial diffusion barriers for thermally stable and low contact resistance Cu source/drain electrode in a-Si:H TFT-LCDs. Electronic Materials Letters, 2012, 8, 21-25.	2.2	5
44	Effects of iron(III) p-toluenesulfonate hexahydrate oxidant on the growth of conductive poly(3,4-ethylenedioxythiophene) (PEDOT) nanofilms by vapor phase polymerization. Synthetic Metals, 2011, 161, 1347-1352.	3.9	23
45	Fabrication of an a-IGZO Thin Film Transistor Using Selective Deposition of Cobalt by the Self-Assembly Monolayer (SAM) Process. Journal of Nanoscience and Nanotechnology, 2011, 11, 787-790.	0.9	4
46	ITO-free low-cost organic solar cells with highly conductive poly(3,4 ethylenedioxythiophene): p-toluene sulfonate anodes. Solar Energy Materials and Solar Cells, 2011, 95, 3573-3578.	6.2	26
47	Effects of an Al interlayer on the formation of Pt film on TiO ₂ /Pt/Si structures. Current Applied Physics, 2011, 11, S111-S114.	2.4	2
48	Temperature Dependence of Bis(triisopropylsilylethynyl)-Pentacene Nanofilm Deposited on Octadecyltrichlorosilane Self Assembled Monolayer Surface as a Transistor Channel. Journal of Nanoscience and Nanotechnology, 2010, 10, 3489-3492.	0.9	1
49	Effects of Solvents on Poly(3,4-Ethylenedioxythiophene) (PEDOT) Thin Films Deposited on a (3-Aminopropyl)Trimethoxysilane (APS) Monolayer by Vapor Phase Polymerization. Electronic Materials Letters, 2010, 6, 17-22.	2.2	13
50	Selective Deposition of Copper with Iodine Assisted Growth of MOCVD on an MPTMS Monolayer Surface at a Low Temperature. Electronic Materials Letters, 2010, 6, 209-213.	2.2	6
51	Aminosilane monolayer-assisted patterning of conductive poly(3,4-ethylenedioxythiophene) source/drain electrodes for bottom contact pentacene thin film transistors. Organic Electronics, 2010, 11, 338-343.	2.6	16
52	Permanent optical doping of amorphous metal oxide semiconductors by deep ultraviolet irradiation at room temperature. Applied Physics Letters, 2010, 96, .	3.3	23
53	Structural and morphological features of concentric iron oxide/carbon nanotubes obtained from phospholipids. Journal of Materials Chemistry, 2010, 20, 5748.	6.7	5
54	Formation of Cu nanocrystals on 3-mercaptopropyltrimethoxysilane monolayer by pulsed iodine-assisted chemical vapor deposition for nonvolatile memory applications. Applied Physics Letters, 2009, 94, 213508.	3.3	7

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55	Effects of Si interlayer on resistance switching of Pt/Si/TiO ₂ /Pt structures. Journal of Vacuum Science & Technology B, 2009, 27, 2175.	1.3	7
56	Design of gate stacks for improved program/erase speed, retention and process margin aiming next generation metal nanocrystal memories. Semiconductor Science and Technology, 2009, 24, 115009.	2.0	10
57	Tunable Memory Characteristics of Nanostructured, Nonvolatile Charge Trap Memory Devices Based on a Binary Mixture of Metal Nanoparticles as a Charge Trapping Layer. Advanced Materials, 2009, 21, 178-183.	21.0	97
58	Enhanced Chemical Vapor Deposition of Pt Films on UV-exposed TiO ₂ Surfaces. Electronic Materials Letters, 2009, 5, 35-38.	2.2	7
59	Significantly improved stability of n-octadecyltrichlorosilane self-assembled monolayer by plasma pretreatment on mica. Thin Solid Films, 2008, 516, 940-947.	1.8	11
60	Effects of defects generated in ALD TiO ₂ films on electrical properties and interfacial reaction in TiO ₂ /SiO ₂ /Si system upon annealing in vacuum. Metals and Materials International, 2008, 14, 759-765.	3.4	18
61	Strain Relaxation in Sol-gel Grown Epitaxial Anatase Thin Films. Journal of Physical Chemistry C, 2008, 112, 4205-4208.	3.1	15
62	Mobility Enhanced Photoactivity in Sol-gel Grown Epitaxial Anatase TiO ₂ Films. Langmuir, 2008, 24, 2695-2698.	3.5	26
63	Effect of O ₂ Gas during Inductively Coupled O ₂ /Cl ₂ Plasma Etching of Mo and HfO ₂ for Gate Stack Patterning. Japanese Journal of Applied Physics, 2008, 47, 6938-6942.	1.5	7
64	Controllable Feature Sizes of Highly Conductive Poly(3,4-Ethylenedioxythiophene) Nanofilms Patterned on SiO ₂ Surface. Journal of Nanoscience and Nanotechnology, 2008, 8, 5080-5084.	0.9	0
65	Effects of defects generated in ALD TiO ₂ films on electrical properties and interfacial reaction in TiO ₂ /SiO ₂ /Si system upon annealing in vacuum. Metals and Materials International, 2008, 14, 759-765.	3.4	0
66	Significantly Improved Adhesion of Poly(3,4-ethylenedioxythiophene) Nanofilms to Amino-Silane Monolayer Pre-Patterned SiO ₂ Surfaces. Journal of Nanoscience and Nanotechnology, 2007, 7, 3792-3794.	0.9	7
67	Nonvolatile nanocrystal charge trap flash memory devices using a micellar route to ordered arrays of cobalt nanocrystals. Applied Physics Letters, 2007, 91, 153506.	3.3	42
68	Aminosilane SAM-Assisted Patterning of Poly(3,4-ethylenedioxythiophene) Nanofilm Robustly Adhered to SiO ₂ Substrate. Macromolecular Rapid Communications, 2007, 28, 1574-1580.	3.9	29
69	Di- and tri-aminosilane SAM-assisted patterning of highly pure poly(3,4-ethylenedioxythiophene) nanofilms robustly adhered to silicon oxide substrate. Surface and Coatings Technology, 2007, 201, 9426-9431.	4.8	10
70	Effects of ion damage on the surface of ITO films during plasma treatment. Applied Surface Science, 2007, 253, 8928-8932.	6.1	16
71	Layer-by-layer assembled charge-trap memory devices with adjustable electronic properties. Nature Nanotechnology, 2007, 2, 790-795.	31.5	251
72	Pulsed MOCVD of Cu Seed Layer using a (Hfac)Cu(3,3-Dimethyl-1-Butene) Source Plus H ₂ Reactant. Materials Research Society Symposia Proceedings, 2004, 812, F3.21.1.	0.1	1

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73	Adhesion, passivation, and resistivity of a Ag(Mg) gate electrode for an amorphous silicon thin-film transistor. <i>Journal of Materials Research</i> , 2003, 18, 1441-1446.	2.6	2
74	The formation of low temperature Cu ₃ Si in Ag(Cu)/Si structure upon annealing and its effects on adhesion and resistivity. <i>Materials Research Society Symposia Proceedings</i> , 2003, 766, 3151.	0.1	4
75	Plasma pretreatment of the Cu seed layer surface in Cu electroplating. <i>Materials Chemistry and Physics</i> , 2002, 73, 227-234.	4.0	18
76	Dry Patterning of Cu(Mg) Alloy Films Using a Self-Aligned MgO Mask In an Oxygen Plasma Plus H(hfac) Chemistry. <i>Materials Research Society Symposia Proceedings</i> , 2002, 716, 11191.	0.1	0
77	Influence of Mg on Resistivity, Adhesion, Agglomeration of Ag(Mg)/SiO ₂ /Si Multilayers. <i>Materials Research Society Symposia Proceedings</i> , 2001, 686, 1.	0.1	0
78	Dry patterning of copper films using an O ₂ plasma and hexafluoroacetylacetone. <i>Thin Solid Films</i> , 2001, 392, 122-127.	1.8	21
79	High temperature cracking of tungsten polycide films on quartz substrate. <i>Thin Solid Films</i> , 2000, 370, 307-310.	1.8	4
80	Factors Affecting Passivation of Cu(Mg) Alloy Films. <i>Journal of the Electrochemical Society</i> , 2000, 147, 3066.	2.9	42
81	Effect of Mg content in Cu(Mg)/SiO ₂ /Si multilayers on the resistivity after annealing in an oxygen ambient. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2000, 18, 2972-2977.	2.1	19
82	MOCVD of TiN and/or Ti from new precursors. <i>Thin Solid Films</i> , 1998, 320, 15-19.	1.8	17
83	Plasma Enhanced Chemical Vapor Deposition of Blanket TiSi ₂ on Oxide Patterned Wafers: II . Silicide Properties. <i>Journal of the Electrochemical Society</i> , 1992, 139, 1166-1170.	2.9	7
84	Plasma Enhanced Chemical Vapor Deposition of Blanket TiSi ₂ on Oxide Patterned Wafers: I . Growth of Silicide. <i>Journal of the Electrochemical Society</i> , 1992, 139, 1159-1165.	2.9	8
85	Selective deposition of TiSi ₂ on oxide patterned wafers using low pressure chemical vapor deposition. <i>Journal of Electronic Materials</i> , 1991, 20, 331-337.	2.2	17